Application Number

Filing Date

First Named Inventor

(to be used for all correspondence after initial filing)

Application Number

Filing Date

First Named Inventor

Art Unit

1635 JPW PTO/SB/21 (04-04)

FORM (to be used for all correspondence after initial filing) Total Number of Pages in This Submission ENCLOSURES (Check all that apply) ENCLOSURES (Check all that apply) ENCLOSURES (Check all that apply) Fee Transmittal Form Drawing(s) Licensing-related Papers After Allowance Communication to Technology Center (TC) Appeal Communication to Board of Appeal Communication to Technology Center (TC) Appeal Communication to TC (Appeal Montice, Brief, Reply Brief) Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Address Extension of Time Request Express Abandonment Request Express Abandonment Request Information Disclosure Statement Communication Disclosure Statement Communication Return Postcard Communication Return Postcard Firm This Named Inventor Cech, Thomas R. Art Unit 1635 Examiner Name John E. Angell After Allowance Communication to Tome Technology Center (TC) Appeal Source (TC) Appeal Source (TC) Appeal Communication to Tome Convert to a Provisional Application Proprietary Information Status Letter Other Enclosure(s) (please identify below): Communication Return Postcard Communication Return Postcard Firm The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430. Signature Signature Reg. No. 42,271	TRANSMITTAL	Filing Date	November 2, 1999	
Art Unit	& TRADE FORM	First Named Inventor		·
Examiner Name Jon E. Angell		Art Unit		
Total Number of Pages in This Submission 9 Attorney Docket Number 015389-002611US Fee Transmittal Form	•	Examiner Name		
See Transmittal Form		Attorney Docket Number		
Fee Transmittal Form Drawing(s)	Total Number of Pages in This Submission	9 /	015389-00261105	
Fee Transmittal Form Drawing(s)		ENCLOSURES (Check all that	apply)	
Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual name Signature Date October 5, 2004 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop Amendment, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Janet L. Newmaker Date October 5, 2004	Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority	Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addre Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks The Commissioner is au	to Technol Appeal Co of Appeal So Appeal Not Proprietary Status Lett Other Encl identify be Communication Return Postcard	ogy Center (TC) mmunication to Board and Interferences mmunication to TC tice, Brief, Reply Brief) y Information ter losure(s) (please low):
Reg. No. 42,271 Signature Date CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop Amendment, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Janet L. Newmaker Date October 5, 2004	Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATION		EY, OR AGENT	
CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop Amendment, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Janet L. Newmaker Date October 5, 2004	or Townsend and Townse			
CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop Amendment, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Janet L. Newmaker Date October 5, 2004		Reg.	No. 42,271	 ,
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Date October 5, 2004	I hereby certify that this correspondence is being envelope addressed to: Commissioner for Pate	g deposited with the United States Postal	Service with sufficient pos	
Signature Janet L. Newmarker Date October 5, 2004	Typed or printed name Janet L. Newma	aker		
	Signature Janet L.	Newmater	Date	October 5, 2004

09/432,503

FEE TRANSMITTAL Complete if Known 09/432,503 Application Number for FY 2004 November 2, 1999 Filing Date Effective 10/01/2003. Patent fees are subject to annual revision. Cech, Thomas R. First Named Inventor Applicant claims small entity status. See 37 CFR 1.27 Jon E. Angell **Examiner Name** 1635 Art Unit TOTAL AMOUNT OF PAYMENT (\$) 015389-002611US Attorney Docket No.

	METHOD OF PA	YMENT (check all that apply)				-	FEE C	ALCULATION (continued)	
Check	Credit Card	Money Order Other None		3. ADD	ITIONAL	EES			
Deposit Ad		·		Large	Entity	Small	Entity		
Deposit Account	20-1430	n]	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Number	20-1430	9		1051	130	2051	65	Surcharge - late filing fee or oath	
			-	1052	50	2052	25	Surcharge - late provisional filing fee or	
Deposit	Tournoond	and Townsend and Crew LLP]					cover sheet.	
Account Name	Townsena	and Townsend and Crew LLP	1	1053	130	1053	130	Non-English specification	
The Director is	s authorized to: /c	heck all that apply)	_	1812	2,520	1812	2,520	For filing a request for reexamination	
	e(s) indicated below	K-21		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge any	y additional fee(s) o	or any underpayment of fee(s)		1805	1,840*	1805	1,840*	Requesting publication of SIR after	
Charge fee	e(s) indicated below	, except for the filing fee						Examiner action	
to the above-ide	entified deposit acc	ount.		1251	110	2251	55	Extension for reply within first month	
	FEE	CALCULATION		1252	420	2252	210	Extension for reply within second month	
1. BASIC I	FILING FEE			1253	950	2253	475	Extension for reply within third month	
Large Entity	Small Entity	_		1254	1,480	2254	740	Extension for reply within fourth month	
Fee Fee	Fee Fee	Fee Description Fee Pa	d					• •	
Code (\$)	Code (\$)	Light from 5	_	1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 1002 340	2001 385 2002 170	Utility filing fee Design filing fee		1401	330	2401	165	Notice of Appeal	
1002 540	2003 265	Plant filing fee	-	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770	2004 385	Reissue filing fee		1403	290	2403	145	Request for oral hearing	
1005 160	2005 80	Provisional filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
	SUBTOT	AL (1) (\$)		1452	110	2452	55	Petition to revive – unavoidable	
	305101	AL (1)		1453	1,330	2453	665	Petition to revive – unintentional	
2. EXTRA C	CLAIM FEES FO	OR UTILITY AND REISSUE		1501	1,330	2501	665	Utility issue fee (or reissue)	
		Fee from		1502	480	2502	240	Design issue fee	
	Ext	ra Claims below Fee Paid		1503	640	2503	320	Plant issue fee	
Total Claims	-** =			1460	130	1460	130	Petitions to the Commissioner	
Independent Claims			=	1807	50	1807	50	Petitions related to provisional applications	
Multiple			뤽	1806	180	1806	180	Submission of Information Disclosure Stmt	180
Dependent		^F L		8021	40	8021	40		
Large Entity	Small Entity							Recording each patent assignment per property (times number of properties)	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description		1809	770	2809	385	Filing a submission after final rejection	
1202 18	2202 9			1810	770	2810	385	(37 CFR § 1.129(a)) For each additional invention to be	
1201 86 1203 290	2201 43 2203 145			1,0,0	770	2010	505	examined (37 CFR § 1.129(b))	
1203 290	2203 143	** Reissue independent claims	Jaiu	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18	2205 9	over original patent ** Reissue claims in excess of 2	ס	1802	900	1802	900	Request for expedited examination of a design application	
	ı	and over original patent BTOTAL (2) (\$)	٦	Other fe	e (specify	I)			
or number pre		er; For Reissues, see above							<u> </u>
5				*Reduce	ed by Basi	c Filing I	Fee Paid	SUBTOTAL (3) (\$)180	

SUBMITTED BY				Co	mplete (if applicable)
Name (Print/Type)	Scott L. Aysenhus	Registration No. (Attorney/Agent)	42,271	Telephone	303-571-4000
Signature	Siot lu	iender		Date	October 5, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Attorney Docket No.: 015389-002611US

Client Reference No.: 018/063C

Commissioner for Patents Mail Stop Amendment P.O. Box 1450 Alexandria, VA 22313-1450

On October 5, 2004

TOWNSEND and TOWNSEND and CREW LLP

By: Christ R. Lewmaker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas R. Cech et al.

Application No.: 09/432,503

Filed: November 2, 1999

For: INCREASING THE

PROLIFERATIVE CAPACITY OF **CELLS USING TELOMERASE** REVERSE TRANSCRIPTASE

(AMENDED)

Customer No.: 20350

Commissioner for Patents Mail Stop Amendment P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants enclose herewith a Supplemental Information Disclosure Statement. The enclosed IDS lists the same documents as cited in the IDS that was mailed on August 19. 2004.

Applicants request that the Examiner disregard the IDS submitted August 19, 2004, as the certification made in that statement was made in error. Applicants instead ask that the Examiner consider the enclosed replacement IDS and provide Applicants a marked off copy

Confirmation No.: 1130

Examiner: Jon E. Angell

Art Unit: 1635

COMMUNICATION

PATENT

Thomas R. Cech et al.

Application No.: 09/432,503

Page 2

of this IDS in the next communication from the Patent Office. The enclosed IDS authorizes the Patent Office to charge the \$180 IDS fee to Deposit Account No. 20-1430.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at (303) 571-4000.

Respectfully submitted,

Scott L. Ausenhus Reg. No. 42,271

Date: October 5, 2004

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, California 94111-3834

Tel: 303-571-4000 Fax: 303-571-4321

SLA/jln 60324994 v1 I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Attorney Docket No.: 015389-002611US Client Reference No.: 018/063C

Commissioner for Patents Mail Stop Amendment P.O. Box 1450 Alexandria, VA 22313-1450

On October 5, 2004

TOWNSEND and TOWNSEND and CREW I

By: Great R. Sewmater

Janet L. Newmaker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas R. Cech et al.

Application No.: 09/432,503

Filed: November 2, 1999

For: INCREASING THE

PROLIFERATIVE CAPACITY OF CELLS USING TELOMERASE REVERSE TRANSCRIPTASE

(AMENDED)

Customer No.: 20350

Commissioner for Patents Mail Stop Amendment P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Confirmation No.: 1130

Examiner: Jon E. Angell

Art Unit: 1635

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37

CFR §1.97 and §1.98

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are not enclosed as they were previously submitted with the Information Disclosure Statement dated August 19, 2004.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

10/12/2004 CCHRU1 00000066 201430 09432503

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PATENT

Thomas R. Cech et al.

Application No.: 09/432,503

Page 2

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the

information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses

all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or

Notice of Allowance.

The Commissioner is hereby authorized to deduct the \$180 fee for submission of

an Information Disclosure Statement after issuance of an Office Action from the undersigned's

Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any

overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: October 5, 2004

Scott L. Ausenhus Reg. No. 42,271

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor

San Francisco, California 94111-3834

Tel: 303-571-4000 Fax: 303-571-4321

SLA/jln

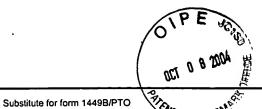
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE		Complete if Known				
		18	We - CARE	Application Number	09/432,503	
INF	ORMATION	DIS	SCLOSURE	Filing Date	November 2, 1999	
STA	TEMENT B	SY A	PPLICANT	First Named Inventor	Cech, Thomas R.	
				Art Unit	1635	
	(use as many sh	eets a	s necessary)	Examiner Name	Jon E. Angell	
Sheet	1	of	2	Attorney Docket Number	015389-002611US	

	U.S. PATENT DOCUMENTS+							
		Document Number						
Examiner Initials*	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			

				FOREIGN PA	TENT DOCUME	NTS		
Examiner Initials*	Cite No.1	Fore	eign Patent Doo	cument	Publication Date	Name of Patentee or Applicant of Cited	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)	WW-DD-1111	Document	Figures Appear	T ⁶

Examiner Signature	Date Considered	



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

	Complete if Known					
Application Number	09/432,503					
Filing Date	November 2, 1999					
First Named Inventor	Cech, Thomas R.					
Art Unit	1635					
Examiner Name	Jon E. Angell					
Attorney Docket Number	015389-002611US					

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	C1	CAMPBELL, KEITH & WILMUT, IAN "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress" Theriogenology, January 1997, pp. 63-72, Vol. 47, Issue 1, Elsevier Science Inc.	
	C2	GEARHART, JOHN "New Potential for Human Embryonic Stem Cells" Science, November 6, 1998; pp. 1061-1062, Vol. 282, Issue 5391.	
-	СЗ	THOMSON, JAMES A. et al. "Embryonic Stem Cell Lines Derived from Human Blastocysts" <i>Science</i> , November 6, 1998; pp. 1145-1147, Vol. 282, Issue 5391.	

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Examiner	Date		
Signature	Considered		_